

WHAT IS CLAIMED IS:

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1. A rotary head drum apparatus, comprising:
a stator drum;

a rotary drum provided with a plurality of
magnetic heads and rotating said magnetic heads, said
10 rotary drum being mounted for rotational movement with
respect to said stator drum;

a rotary transformer including a stator-side
rotary transformer provided on said stator drum and a
rotating-side rotary transformer fixed to said rotary drum,
15 said stator-side rotary transformer and said rotating-side
rotary transformer being adapted to send and receive
signals to each other, wherein an adhesive providing gap
is disposed between said rotating-side rotary transformer
and said rotary drum for receiving an adhesive for bonding
20 said rotating-side rotary transformer to said rotary drum;
and

an adhesive splashing prevention part provided
on said rotating-side rotary transformer and receiving
adhesive splashing from said adhesive providing gap,

25 said adhesive splashing prevention part
including:

a first ring member having an opening in a
center thereof and bonded to said rotating-side rotary
transformer with a thermosetting resin adhesive; and

30 a second ring member bonded to said first
ring member with the thermosetting resin adhesive and
having in a center thereof an opening whose diameter is
smaller than a diameter of the opening of said first ring

member,

wherein said adhesive splashing prevention part forms a space receiving adhesive splashing from said adhesive providing part.

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2. The rotary head drum apparatus as claimed in claim 1, wherein a flexible printed circuit is connected to a bottom surface of the rotary drum,

the flexible printed circuit includes an upper ring connected to the rotary drum and a lower ring connected to the rotating-side rotary transformer, and electrically connects the magnetic heads with the rotating-side rotary transformer, and

the lower ring is used as the second ring member.

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3. The rotary head drum apparatus as claimed in claim 2, wherein the first ring member has a ring-shaped groove formed in at least one of a top surface and a bottom surface thereof, and a thermosetting resin is disposed in said groove.

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4. The rotary head drum apparatus as claimed in claim 1, wherein the first ring member has a ring-shaped groove formed in at least one of a top surface and a

bottom surface thereof, and a thermosetting resin is disposed in said groove.

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5. The rotary head drum apparatus as claimed in claim 1, wherein the adhesive splashing prevention part includes an adhesive splashing prevention member including:

10 a first part corresponding to the first ring member;

a second part corresponding to the second ring member; and

15 a ring-shaped groove in a bottom surface of said first part,

said first and second parts forming an integral part, and

said adhesive splashing prevention member is

20 bonded to the rotating-side rotary transformer with a thermosetting resin adhesive disposed in said ring-shaped groove.

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6. The rotary head drum apparatus as claimed in claim 1, wherein the first ring member is bonded to the rotating-side rotary transformer with the thermosetting resin adhesive with substantially no space in between, and

30 the second ring member is bonded to the first ring member with the thermosetting resin adhesive with substantially no space in between.

- 5 7. The rotary head drum apparatus as claimed in claim 1, wherein the adhesive splashing prevention part is formed by the first ring member, the second ring member, and the rotating-side rotary transformer that are formed as a one-piece part.